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9 Rue Montée St. Michel, F-06360 Eze (FR). **OOMEN, Hein** [NL/FR]; 14 Rue Rossini, F-06000 Nice (FR).

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(74) Agent: **VAN WESTENBRUGGE, Andries et al.**; Nederlandsch Octrooibureau, Scheveningseweg 82, P.O. Box 29720, NL-2502 LS The Hague (NL).

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(71) Applicant (*for all designated States except US*): **SINGLE BUOY MOORINGS INC.** [CH/CH]; 5, route de Fribourg, CH-1723 Marly (CH).

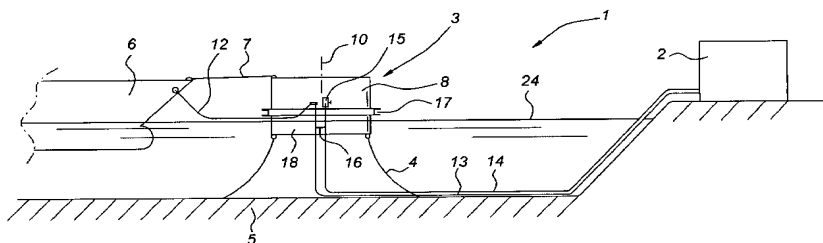
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(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **POLDERVAART, Leendert** [NL/MC]; 2, Impasse du Castelleretto, MC-98000 Monaco (MC). **WILLE, Hein** [NL/FR];

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(54) Title: TRANSFER SYSTEM AND METHOD FOR TRANSFERRING A CRYOGENIC FLUID FROM AN ONSHORE UNIT TO A SHIP BY MEANS OF A BUOY COMPRISING A REEL FOR A FLEXIBLE HOSE AND WHICH LEVEL IN THE WATER CAN BE CHANGED



(57) Abstract: The invention relates to a cryogenic transfer system (1) comprising: a cryogenic fluid storage and/or processing structure (2), an off shore loading and/or offloading structure (3, 30, 40) comprising a base (18, 41) and a reel means (17) rotatable relative to said base around an axis (10), a transfer duct (13, 14) extending from the fluid storage and/or processing structure (2) to the loading and/or offloading structure (3, 30, 40), a flexible hose (12) windable around the reel means (17), connectable with a first end (20) to the duct (13, 14), and with a second end (23) connectable to a floating structure (6). The invention is characterised in that: The transfer duct comprises a first and a second duct (13, 14), each duct having an end part (22, 22') at or near the loading and/or offloading structure (3, 30, 40), the flexible hose (12) being with the first end (20) connectable to the end part (22) of at least the first or the second duct, In a cooling configuration, the flexible hose (12) being wound on the reel means (17), the reel means being situated above water level (24) and rotatable around a vertical axis (10), an interconnecting duct section (12, 16) extending between the end parts (22, 22') of the first and second ducts (13, 14), In a transfer configuration the flexible hose (12) being at least partly unwound from the reel means (17) and being with a second end (23) connectable to the floating structure (6), The loading and/or offloading structure (3, 30, 40) comprising lifting means (36, 43, 58, 59) for lowering the flexible hose (12) towards water level (24) in the transfer configuration and for raising the hose (12) away from water level for placing the flexible hose in the cooling configuration.



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